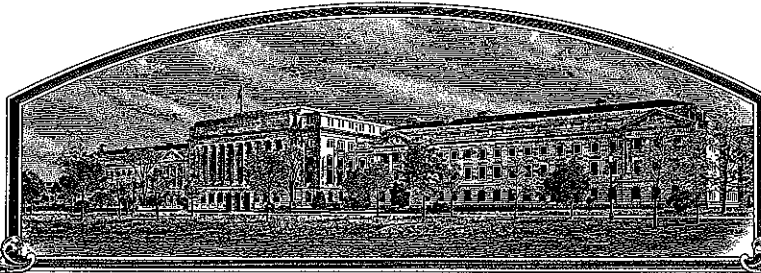


No.

200600159



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

West Bred LLC

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, DURUM

'Grande Doro'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this ninth day of June, in the year two thousand and six.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

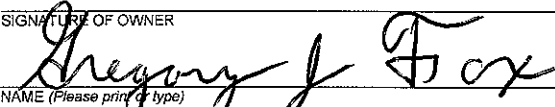
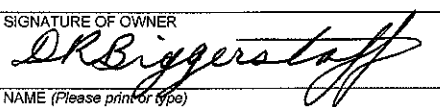


U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER WestBred LLC		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME CA 801-706		3. VARIETY NAME Grande Doro	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 81 Timberline Drive Bozeman, MT 59718-8184		5. TELEPHONE (include area code) (406) 587-1218		FOR OFFICIAL USE ONLY PVPO NUMBER 2006 00159 FILING DATE March 13, 2006	
		6. FAX (include area code) (406) 586-8247			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION AZ		9. DATE OF INCORPORATION August 24, 1990	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Dr. Greg Fox WestBred LLC 717 14th Street South. Fargo, ND 58103				FILING AND EXAMINATION FEES: \$ 4382.00 DATE 3/13/06 CERTIFICATION FEE: \$ 768.00 DATE 5/17/2006	
11. TELEPHONE (include area code) (701) 293-5146		12. FAX (include area code) (701) 293-5146		13. E-MAIL gfox@westbred.com	
14. CROP KIND (Common Name) Durum		16. FAMILY NAME (Botanical) Gramineae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Triticum durum		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)				21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
				22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.					
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.					
Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER 			
NAME (Please print or type) GREGORY J. FOX		NAME (Please print or type) Dan R. Biggerstaff			
CAPACITY OR TITLE Special Projects Breeder		DATE 12/16/2005		CAPACITY OR TITLE Vice Pres. Research	
				DATE 12/21/2005	

INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvpindex.htm>

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that name has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, 10301 Baltimore Avenue, Suite 401 NAL Building, Beltsville, MD 20705. Telephone: (301) 504-5682 <http://www.ams.usda.gov/lsg/seed.htm>.

ITEM

- 19a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
20. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

March 17, 2005

24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

"Grande Doro"
Durum Wheat

Exhibit A. Origin and Breeding History

Grande Doro (CA-801-706) is a durum wheat derived from the cross "Mountrail" x FA-898-785 which was made in a growth chamber in February of 1999. FA-898-785 is a WestBred breeding line derived from the cross "Rugby" x "Duraking" that has been found to have some useful tolerance to the disease Fusarium head blight. F₁, F₂, F₃ and F₄ seed generations were advanced in growth chambers with selection for agronomic and seed characteristics. F₄ heads were planted as rows in Carrington, ND in the spring of 2000 where they were screened for yield potential and resistance to common diseases of the region (including Fusarium head blight caused by the fungus *Fusarium graminearum*). F₅ plant selections were made, harvested and planted individually as 5 ft. x 20ft. plots in Yuma, AZ in November of 2000. These plots were evaluated for uniformity, height, straw strength, yield potential and visual seed quality. Five to ten representative F₆ plants from each plot were bulked, bundled and harvested. The F₆ derived F₇ seed from each bulk was planted as a 5 ft. x 20 ft. plot in Casselton, ND in spring of 2001. These plots were evaluated for uniformity, standability, height, yield, seed quality (visual and SDS sedimentation tests), and resistance to the common diseases of the north central region, including scab. Grande Doro was derived from a single F₆ derived F₇ plot, 01-CA-406, in that nursery. This plot was harvested as a bulk and planted on 1/5 Acre in Yuma, AZ in November of 2001 as an initial Breeder Seed increase and given the experimental designation CA-801-706. It was evaluated as quite uniform. This Breeder Seed increase was harvested in April of 2002 and planted in Webster, ND on 3 acres as a second Breeder Seed increase in spring of 2002. Again,

the line, CA-801-706 was found to be quite uniform. From this increase, two 50 acre Foundation Seed increases were planted in the spring of 2003 in Webster, ND and Berthod, ND and the line was named Grande Doro.

Grande Doro is a medium height, medium maturity, hard amber durum wheat adapted to the durum growing region of North Dakota that was bred and developed by WestBred LLC. Grande Doro has been tested extensively in North Dakota by WestBred LLC, Dakota Growers Pasta, and North Dakota State University yield, quality and disease trials (Tables 1 to 5). It was tested in the USDA Uniform Regional Scab Nursery in 2003.

Grande Doro has been observed for six generations of increase and is uniform and stable. Typically, variants taller or shorter than a variety can appear in frequencies of 1 per 10,000. However, to date, no variants have been observed in Grande Doro.

Table 1. Mean agronomic and quality characteristics of Grande Doro and selected cultivars at company trials in six North Dakota locations in 2002¹.

Variety	Falling				Test				
	Height cm	Heading DAP ²	Number sec	HVAC ³ %	SEDS ⁴ mm	Color ⁵ %	Protein %	Weight lbs/bu	Yield bu/ac
FA-898-782	80.2	53.0	378.7	93.0	47.3	7.3	14.0	59.7	45.3
Lebsock	69.6	54.1	372.4	90.4	45.4	7.2	13.7	59.5	44.2
Avonlea	70.1	53.6	406.7	92.5	45.4	7.4	15.0	57.9	43.5
Mountrail	67.3	55.8	364.9	93.3	48.9	7.1	14.0	57.7	41.8
CA-801-706	69.1	56.8	334.2	91.1	43.0	7.1	13.3	59.1	41.2
Mean	71.3	55.0	371.4	92.1	50.6	7.3	14.2	58.5	40.7
LSD@0.05	2.8	0.81	24.0	1.8	2.7	0.05	0.3	0.3	3.4

¹ Locations are Carrington, Leeds, Rolla, Roseglen, Ross and Westhope, North Dakota.

² Days after planting.

³ Hard vitreous amber count

⁴ Flour SDS sedimentation value.

⁵ Based on colorimeter readings using the Hunter Lab scale: Score=(L+2b)/20. A score of 10 is the highest rating and 1 is the lowest rating. Ratings of 7 or higher are quite acceptable.

2006 00 159

Table 2. Mean disease reactions of Grande Doro and selected cultivars at company trials in six North Dakota locations in 2002¹ and ratings published by North Dakota State University (NDSU).

Variety	NDSU Rating									
	Foliar					Scab				
	Scab	Disease	Stem	Leaf	Rust	Damage	DON ²	Damage ³	Flag Leaf	Stem
						%	ppm	%	Disease ⁴	Rust
									%	%
Avonlea	S	M		R	R	1.53	1.94	4.2	24.6	0
Belzer	M	M		R	R	1.52	1.49	5.3	14.6	0
Ben	MS	MR		R	R	2.45	3.41	6.0	5.8	0
Lebsock	MS	MS		R	R	1.47	1.98	4.6	17.5	0
Mountrail	MS	M		R	R	1.92	3.02	4.7	7.1	0
CA-801-706						1.97	2.43	5.4	5.0	0
FA-898-782						1.96	2.46	3.3	25.8	0
Mean						2.0	2.61	5.0	16.3	
LSD@0.05						0.61	0.42	1.0	5.5	

¹ Locations are Carrington, Leeds, Rolla, Roseglen, Ross and Westhope, North Dakota.

² Deoxynivalenol – the toxin produced by Fusarium.

³ Kernel damage resulting from weather or disease.

⁴ % infestation of flag leaf with tan spot and Septoria tritici.

2006 00 159

Table 3. Mean agronomic, quality characteristics and disease reactions of Grande Doro and selected cultivars at company trials in six North Dakota locations in 2003¹.

Variety	Height cm	Flag Leaf Disease ² %	Scab Damage %	DON ³ ppm	Total Damage ⁴ %	Falling Number sec	HVAC ⁵ %	Protein %	SEDS ⁶ mm	Test Weight lb/bu	Yield Bu/ac
Avonlea	89.6	8.1	1.12	2.11	3.63	516.2	95.4	14.8	36.0	59.5	62.7
Ben	93.8	3.8	0.57	1.86	4.36	456.5	94.5	13.7	40.3	61.0	62.9
Belzer	93.9	11.9	0.49	1.01	3.11	483.1	94.8	13.9	53.6	59.2	64.4
Lebsock	86.3	5.6	0.71	1.50	3.08	489.0	95.2	13.2	36.6	61.6	65.6
Mountrail	87.5	4.4	0.89	1.86	2.87	488.0	95.2	13.3	36.3	59.7	64.9
CA-801-706	88.7	8.1	0.77	2.26	2.71	453.9	95.4	13.6	36.1	60.9	65.1
Rugby	96.6	4.4	0.70	1.74	2.72	437.1	96.2	13.8	21.7	60.9	62.7
FA-898-782	98.1	9.4	0.60	1.54	1.85	468.4	97.2	14.0	40.6	61.4	63.1
Mean	89.3	10.8	0.86	1.99	3.18	471.7	95.6	14.0	43.8	60.2	62.4
LSD@0.05	2.7	3.7	0.28	0.67	0.61	18.0	1.3	0.7	3.7	0.4	3.5

¹ Locations are Carrington, Langdon, Leeds, Garrison, Ross and Westhope, North Dakota.

²% infestation of flag leaf with tan spot and Septoria tritici.

³ Deoxynivalenol – the toxin produced by Fusarium.

⁴ Kernel damage resulting from weather or disease.

⁵ Hard vitreous amber count

⁶ Flour SDS sedimentation value.

Table 4. Mean agronomic and quality characteristics of Grande Doro and check cultivars at 5 North Dakota Experiment Stations¹ in 2004.

Variety	Days to Head		Plant Height	Plant Height	Lodge	Leaf Necrosis	1000 Kernel Weight		Protein	Test Weight	Yield
	DAP ²	in	cm	0-9 ³	%	gms	%	lbs/bu	bu/ac		
Lebsock	69.4	31.5	80.0	0.9	15.0	41.6	14.9	62.0	57.1		
Mountrail	71.0	32.6	82.8	1.1	15.0	40.4	14.7	60.9	58.6		
CA-801-706	71.1	33.9	86.1	1.1	15.0	42.7	14.9	62.0	60.2		
MEAN	70.3	32.7	83.1	1.4	17.1	40.9	15.0	61.2	58.2		
LSD.05	1.2	2.7	6.9	33.2		3.3	0.9	0.8	7.1		

¹Locations were Williston, Dickinson, Hettinger, Minot and Carrington, ND.

²DAP=Days after planting

³Lodging score based on scale 0-9 (0=upright, 9=flat)

Table 5. Milling, semolina, and pasta quality analyses for Grande Doro, Lebsock check and experimental durum wheat samples grown in North Dakota in 2004.

Sample	Total Semo		Protein Semo ³	Ash Semo ⁴	Semo Color ⁵			Specks ⁶	Mixo ⁷	Pasta		Cooked ⁹	
	Ext ¹	Ext ²			L	a	b			Color ⁸	Weight ¹⁰	Loss ¹¹	Firm ¹²
2009	74.7	65.9	13.2	0.68	84.5	-3.0	26.8	30	7	8.5	29.8	7.7	5.7
3141	74.5	65.6	12.6	0.66	85.1	-3.0	25.5	27	8	8.5	28.6	7.6	6.7
2166	75.2	66.5	12.6	0.67	84.6	-3.2	27.5	23	7	8.5	29.5	7.8	5.1
CA-801-706	75.1	66.4	12.4	0.62	84.9	-2.5	21.3	23	8	7.5	29.5	8.2	5.6
Lebsock	75.2	66.9	12.1	0.67	84.8	-2.7	22.5	23	6	7.5	29.9	8.0	5.5
Alzada	72.9	65.3	12.8	0.70	84.8	-3.2	30.0	13	8	9.5	28.9	7.9	5.9

¹ Total Extraction: %, (Semolina + flour)/total product wt.

² Semolina extraction: Semolina wt/total product wt.

³ Semolina protein, % on 14% mb (Leco).

⁴ Semolina ash, % on a 14% mb.

⁵ Semolina color, CIE L, a, b values.

⁶ Specks, number specks/ 10 square inches.

⁷ Mixo=mixogram score, scale of 1 to 8 where 1 is very weak and 8 is very strong.

⁸ Pasta color: score based on a color map.

⁹ Pasta cooked 12 min

¹⁰ Cooked weight, weight after cooking 10 g of spaghetti.

¹¹ Cooking loss, % loss to the cooking water.

¹² Cooked firmness is g cm, work required to shear 5 strands of spaghetti.

2006 00 159

Exhibit B. Statement of Distinctness

Grande Doro is most similar to the durum wheat variety Mountrail. However, Grande Doro can be distinguished from Mountrail by two distinct morphological characteristics, auricle hairs and glume beak width.

1. Grande Doro has auricles that are hairy and Mountrail has glabrous auricles.
2. Grande Doro has glume beaks that are wide and Mountrail has glume beaks that are narrow (Figure 1).

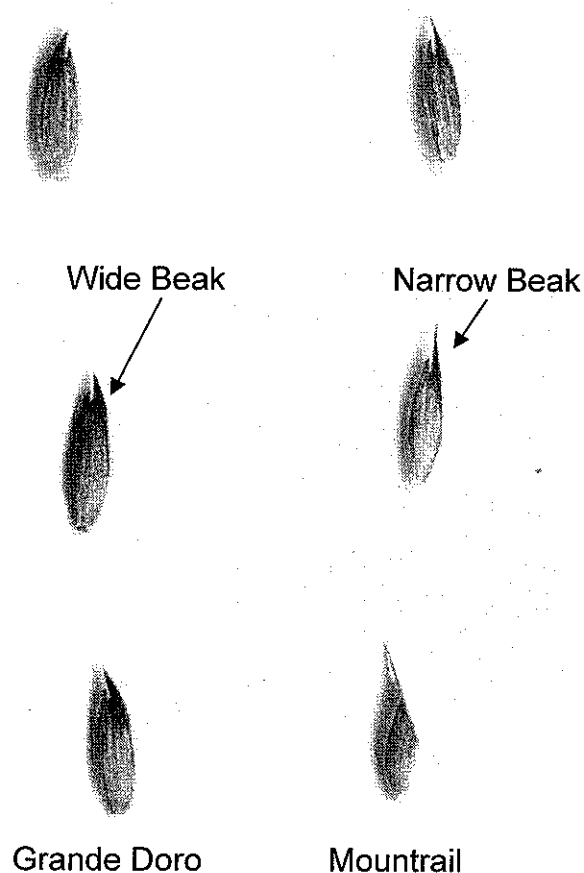


Figure 1. Glumes with beaks of Grande Doro (on left) and Mountrail (on right).

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Wheat (*Triticum* spp.)

NAME OF APPLICANT (S) WestBred LLC	TEMPORARY OR EXPERIMENTAL DESIGNATION CA-801-706	VARIETY NAME Grande Doro
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country) 81 Timberline Dr. Bozeman, MT 59718-8184		FOR OFFICIAL USE ONLY PVPO NUMBER 2006 00 159

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., or) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: _____ Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

- 1 = Common
2 = Durum
3 = Club
4 = Other (Specify) _____

2. VERNALIZATION:

- 1 = Spring
2 = Winter
3 = Other (Specify) _____

3. COLEOPTILE ANTHOCYANIN:

- 1 = Absent 2 = Present

4. JUVENILE PLANT GROWTH:

- 1 = Prostrate 2 = Semi-Erect 3 = Erect

5. PLANT COLOR: (boot stage)

- 1 = Yellow-Green
2 = Green
3 = Blue-Green

6. FLAG LEAF: (boot stage)

- 1 = Erect 2 = Recurved

- 1 = Not Twisted 2 = Twisted

- 1 = Wax Absent 2 = Wax Present

7. EAR EMERGENCE:

Number of Days (Average)

Number of Days Earlier Than *

Same As *

Number of Days Later Than *

Mountrail

*Relative to a Commercial Variety Grown in the Same Trial

8. ANTHOR COLOR:

- 1 = Yellow 2 = Purple

9. PLANT HEIGHT: (from soil to top of head, excluding awns)

101

cm (Average)

03

cm Taller Than

Mountrail

Same As

cm Shorter Than

2006 00 159

10. STEM:

A. ANTHOCYANIN

1

1 = Absent 2 = Present

B. WAXY BLOOM

2

1 = Absent 2 = Present

C. HAIRINESS (last internode of rachis)

2

1 = Absent 2 = Present

D. INTERNODE

1

1 = Hollow 2 = Semi-Solid 3 = Solid

3

Number of Nodes

E. PEDUNCLE

1

1 = Erect 2 = Recurved 3 = Semi-Erect

42

cm Length

F. AURICLE

1

Anthocyanin 1 = Absent 2 = Present

2

Hair: 1 = Absent 2 = Present

11. HEAD: (at maturity)

A. DENSITY

2

1 = Lax
2 = Mid-dense (Laxidense)
3 = Dense

B. SHAPE

2

1 = Tapering
2 = Strap
3 = Clavate
4 = Other (Specify) _____

C. CURVATURE

1

1 = Erect
2 = Inclined
3 = Recurved

D. AWNEDNESS

4

1 = Awnless
2 = Apically Awnletted
3 = Awnletted
4 = Awned

12. GLUMES: (at maturity)

A. COLOR

1

1 = White
2 = Tan
3 = Other (Specify) _____

B. SHOULDER

6

1 = Wanting 2 = Oblique
3 = Rounded 4 = Square
5 = Elevated 6 = Apiculate
7 = Other (Specify) _____

C. SHOULDER WIDTH

1

1 = Narrow
2 = Medium
3 = Wide

D. BEAK

2

1 = Obtuse
2 = Acute
3 = Acuminate

E. BEAK WIDTH

3

1 = Narrow
2 = Medium
3 = Wide

F. GLUME LENGTH

3

1 = Short (ca. 7mm)
2 = Medium (ca. 8mm)
3 = Long (ca. 9mm)

G. WIDTH

2

1 = Narrow (ca. 3mm)
2 = Medium (ca. 3.5mm)
3 = Long (ca. 4mm)

12

13. SEED:

A. SHAPE

- ☐ 3 1 = Ovate
2 = Oval
3 = Elliptical

B. CHEEK

- ☐ 1 1 = Rounded
2 = Angular

C. BRUSH

- ☐ 1 1 = Short
2 = Medium
3 = Long
- ☐ 1 1 = Not Collared
2 = Collared

D. CREASE

- ☐ 1 1 = Width 60% or less of Kernel
2 = Width 80% or less of Kernel
3 = Width Nearly as Wide as Kernel
- ☐ 2 1 = Depth 20% or less of Kernel
2 = Depth 35% or less of Kernel
3 = Depth 50% or less of Kernel

E. COLOR

- ☐ 2 1 = White
2 = Amber
3 = Red
4 = Other (Specify) _____

F. TEXTURE

- ☐ 1 1 = Hard
2 = Soft
3 = Other (Specify) _____

G. PHENOL REACTION

- ☐ 1 1 = Ivory
2 = Fawn
3 = Light- Brown
4 = Dark- Brown
5 = Black

H. SEED WEIGHT

- ☐ 3 ☐ 9 g/1000 Seed (whole number only)

I. GERM SIZE

- ☐ 2 1 = Small
2 = Mid-Size
3 = Large

14. DISEASE: (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

- | | |
|---|---|
| <input type="checkbox"/> 2 Stem Rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>) | <input type="checkbox"/> 2 Leaf Rust (<i>Puccinia recondita</i> f. sp. <i>tritici</i>) |
| <input type="checkbox"/> 0 Stripe Rust (<i>Puccinia striiformis</i>) | <input type="checkbox"/> 0 Loose Smut (<i>Ustilago tritici</i>) |
| <input type="checkbox"/> 3 Tan Spot (<i>Pyrenophora tritici-repentis</i>) | <input type="checkbox"/> 0 Flag Smut (<i>Urocystis agropyri</i>) |
| <input type="checkbox"/> 0 Halo Spot (<i>Selenophoma donacis</i>) | <input type="checkbox"/> 0 Common Bunt (<i>Tilletia tritici</i> or <i>T. laevis</i>) |
| <input type="checkbox"/> 0 <i>Septoria nodorum</i> (Glume Blotch) | <input type="checkbox"/> 0 Dwarf Bunt (<i>Tilletia controversa</i>) |
| <input type="checkbox"/> 0 <i>Septoria avenae</i> (Speckled Leaf Disease) | <input type="checkbox"/> 0 Karnal Bunt (<i>Tilletia indica</i>) |
| <input type="checkbox"/> 3 <i>Septoria tritici</i> (Speckled Leaf Blotch) | <input type="checkbox"/> 0 Powdery Mildew (<i>Erysiphe graminis</i> f. sp. <i>tritici</i>) |
| <input type="checkbox"/> 4 Scab (<i>Fusarium</i> spp.) | <input type="checkbox"/> 0 "Snow Molds" |
| <input type="checkbox"/> 0 "Black Point" (Kernel Smudge) | <input type="checkbox"/> 0 Common Root Rot (<i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.) |
| <input type="checkbox"/> 0 Barley Yellow Dwarf Virus (BYDV) | <input type="checkbox"/> 0 Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>) |
| <input type="checkbox"/> 0 Soilborne Mosaic Virus (SBMV) | <input type="checkbox"/> 0 Black Chaff (<i>Xanthomonas campestris</i> pv. <i>translucens</i>) |
| <input type="checkbox"/> 0 Wheat Yellow (Spindle Streak) Mosaic Virus | <input type="checkbox"/> 0 Bacterial Leaf Blight (<i>Pseudomonas syringae</i> pv. <i>syringae</i>) |
| <input type="checkbox"/> 0 Wheat Streak Mosaic Virus (WSMV) | <input type="checkbox"/> 0 Other (Specify) _____ |
| <input type="checkbox"/> Other (Specify) _____ | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> Other (Specify) _____ | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> Other (Specify) _____ | <input type="checkbox"/> Other (Specify) _____ |

15. INSECT: (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

- | | |
|--|--|
| <input type="checkbox"/> 0 Hessian Fly (<i>Mayetiola destructor</i>) | <input type="checkbox"/> 0 Other (Specify) _____ |
| <input type="checkbox"/> 0 Stem Sawfly (<i>Cephus</i> spp.) | <input type="checkbox"/> Other (Specify) _____ |
| <input type="checkbox"/> 0 Cereal Leaf Beetle (<i>Oulema melanopa</i>) | <input type="checkbox"/> Other (Specify) _____ |

15. INSECT: (continued) 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

PLEASE SPECIFY BIOTYPE (Where Needed)

2006 00 159

<input type="checkbox"/> 0	Russian Aphid (<i>Diuraphis noxia</i>)	<input type="checkbox"/>	Other (Specify) _____
<input type="checkbox"/> 0	Greenbug (<i>Schizaphis graminum</i>)	<input type="checkbox"/>	Other (Specify) _____
<input type="checkbox"/> 0	Aphids	<input type="checkbox"/>	Other (Specify) _____

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) WestBred LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER CA-801-706	3. VARIETY NAME Grande Doro
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 81 Timberline Dr. Bozeman, MT 59718-8184	5. TELEPHONE (Include area code) (406) 587-1218	6. FAX (Include area code) (406) 587-8247
7. PVPO NUMBER 2006 00 159		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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